

**To:** Santos, Carmen[Santos.Carmen@epa.gov]  
**Cc:** Gerry Pepper[gerald.pepper@gmail.com]; Hardcastle, Calvin[Calvin.Hardcastle@amec.com]  
**From:** Conlan, Linda  
**Sent:** Fri 8/1/2014 11:19:13 PM  
**Subject:** RE: Pechiney - Deep Structure

Hi Carmen,

As follow-up to our discussion, we are proceeding with the concrete cover/mushroom cap for the structure (referred to as FDC4) in the 4A/4B exaction area per your verbal approval on July 30, 2014. The structure has been prepared for the cover/mushroom cap and the concrete will be placed on Monday August 4, 2014. A 1-foot deep by 1-foot wide trench has been cut along the exterior side walls of the structure, and concrete will be placed over the structure filling the surface of the structure and trench to provide an 8-inch thick cover over the structure. The concrete cover will extend about 3 to 5 feet horizontally from the trench along the floor of the excavation containing the structure. As noted below the concrete cover/mushroom cap will be covered with the orange warning layer, and the structure will be surveyed for the records/and the LUC.

Thank you, Linda

Linda Conlan, PG  
Principal Geologist  
AMEC Environment & Infrastructure, Inc.

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**From:** Conlan, Linda  
**Sent:** Monday, July 28, 2014 10:42 AM  
**To:** 'Santos, Carmen'  
**Cc:** 'Gerry Pepper'; Hardcastle, Calvin  
**Subject:** RE: Pechiney - Deep Structure

Hi Carmen,

As a follow-up to our discussion about the structure and our plan described below, we pulled together the PCBs results requested.

After soil removals were completed in the shoring area and 4A/4B soil removal area, soil remaining in place at depths of 20 to 24 feet (elevation of 167 to 163 feet msl) near the structure contains PCBs at concentrations of 0.13 mg/kg to 33 mg/kg. Soil with PCBs at 33 mg/kg is within the 4A excavation (elevation of 167 feet msl) and is covered with concrete/orange liner per the plan. Southwest of the structure and associated with another structure removed in the shoring area near the 4B soil excavation, soil contains PCBs at a concentration of 328 mg/kg at a depth of 25 feet (elevation of 162 feet msl). This area is also covered with concrete/orange liner per the plan.

Please let us know if you need any additional information.

Thank you, Linda

Linda Conlan, PG  
Principal Geologist  
AMEC Environment & Infrastructure, Inc.

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**From:** Conlan, Linda  
**Sent:** Monday, July 21, 2014 3:25 PM  
**To:** 'Santos, Carmen'  
**Cc:** Gerry Pepper; Hardcastle, Calvin  
**Subject:** Pechiney - Deep Structure  
**Importance:** High

Hi Carmen,

As a follow-up to my voice message on Friday, we have a deep structure (vertical pit) within the southern potion of the 4A/4B excavation area that extends to a depth of about 60 feet (concrete and sheet piling). The structure is about 18 feet long by 16 feet wide. The 4A/4B area is located on the west side of the property. This structure was backfill in placed sometime in the late 1970s. The structure has been cut down to an elevation of about 170 feet msl; about 10 feet below native grade in the same manner as the

other deeper structures on site. Samples of the backfill material and accessible concrete on the inside of the cut concrete surface of the structure (the exterior is covered with thick metals sheet piling and is not accessible) were collected and the PCB concentrations are listed below.

- Backfill material samples - PCBs at 10.6 and 12 mg/kg
- Interior concrete samples – PCBs at 4.5 and 4900 mg/kg

We plan to cover the structure with a 6-inch thick concrete barrier/mushroom cap (which will be in contact with the structure), similar to other structures, and we will place the orange warning layer over the concrete surface. The structure will be surveyed for the records/and the LUC.

This is the last structure that needs resolution, and we anticipate setting the form and pouring concrete over the structure on Wednesday of this week so that we can continue the backfill process in this area at the end of this week and into next week.

Please let us know if have any questions or need any additional information. Thank you for your time.

Regards, Linda

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